	Application No.	Applicant(s)
Notice of Allowability	10/620,074	PATEL ET AL.
	Examiner	Art Unit
	Alexander O. Williams	2826
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in th) or other appropriate communic IGHTS. This application is subj	is application. If not included cation will be mailed in due course. THIS
1. This communication is responsive to the Amendment filed	<u>12/14/04</u> .	
2. X The allowed claim(s) is/are 2-5, 8, 16-22; renumbered 1-4,	5, 6-12 respectively.	
3. The drawings filed on <u>03 September 2004</u> are accepted by	y the Examiner.	•
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application N cuments have been received in	lo this national stage application from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
6. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) including changes required by the Notice of Draftspers	•	PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		the Office of Variation
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in 1	the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the d he header according to 37 CFR 1	rawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERI FOR THE DEPOSIT OF BIOLO	AL must be submitted. Note the DGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Inform 6. ☐ Interview Sumr	nal Patent Application (PTO-152) mary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0		il Date endment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sta 9.	tement of Reasons for Allowance
·		ALEXANDER O. WILLIAMS PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/620,074

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Applicant's Amendment (filed 12/14/05) is acknowledged.
Claims 2 to 5, 8 and 16 to 22 are allowable over the prior art of record.
Claims 1, 6, 7, 9 have been cancelled.

Part III EXAMINER'S AMENDMENT

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. 3 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

Note: Applicant's Remarks/Arguments filed 12/14/04 states that claims 10-15 is withdrawn without prejudice, despite the previous election response with traverse of claims 10-15.

The application has been amended as follows:
 Cancel now without traverse claims 10-15.

REASON FOR ALLOWANCE

3. The following is an Examiner's Statement of Reasons for Allowance:

As to independent claims 2, 16 and 22, the prior art of record fails to show the combination recited in any of the claims. In particular, the prior art of record fails to show or collectively teach the substrate including at least one electrical ground plane with the vias connected to the outermost row of thermal solder balls at the periphery of the substrate and the heat spreader mounted on the package with conductive mounting pegs. Applicant's arguments provide reason for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O. Williams whose-telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30-7:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272 1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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